



ETHERNET EXTENSION EXPERTS

Enable-IT 865 PTZQ Pro Rev B High Powered PoE+ Ethernet Extender User Manual





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TABLE OF CONTENTS

ABOUT THIS USER MANUAL	4
INTRODUCING THE 865 PTZQ PRO EXTENDED PoE AND ETHERNET KIT	5
About The 865 PTZQ PRO EXTENDED PoE and ETHERNET KIT	5
Key Benefits	6
Summary Of Features	6
Multi Use Applications	7
INSTALLING THE 865 PTZQ PRO EXTENDED PoE AND ETHERNET KIT	8
Site Plan – Installation Design Considerations	8
Unpacking the Enable-IT 865 PTZQ PRO KIT	9
Perform An Out Of The Box Test (OOTBT).....	9
Performing The On-Site Installation	10
Mounting the 865 PTZQ PRO KIT	10
Building the 865 PTZQ PRO Interlink Wiring.....	10
Cabling Devices to the Enable-IT 865PTZQ PRO Kit	10
Troubleshooting.....	11
Performance Settings (DIP Switch)	12
TECHNICAL SUPPORT	13
Online Technical Services	13
World Wide Web Site	13
Returning Products for Warranty Repair	13
Returning Products for Refund	13
ENABLE-IT, INC. LIMITED WARRANTY	14
CONTACT US	16

ABOUT THIS USER MANUAL

This product User Manual provides all the information needed to install and use the Enable-IT 865 PTZQ PRO EXTENDED PoE and ETHERNET KIT. This User Manual is intended for use by technicians who are responsible for installing and setting up network equipment. Consequently, it is assumed that the installer has a basic working knowledge of LANs (Local Area Networks), PoE (Power-over-Ethernet) and voice telecom wiring.

Most Enable-IT documents are available in Adobe Acrobat Reader Portable Document Format (PDF) or HTML on the Enable-IT's website under the [Support tab](#).

INTRODUCING THE 865 PTZQ PRO KIT

Congratulations on purchasing the Enable-IT 865 PTZQ PRO EXTENDED PoE and ETHERNET KIT — the simplest method to install your High Powered PoE PTZ Security cameras using Ethernet or telephone wiring. This is the world's first solution to deliver Voice, Ethernet Data and Power over Ethernet (PoE) in a combined package that exceeds the IEEE distance limitations for all Ethernet equipment.

WARNING: Output LAN ports 1 & 2 on the 865 PTZQ PRO CPE are PoE enabled and not for use with non-PoE equipment as it may damage any non-PoE equipment.

This chapter contains introductory information about how it can be used in your network and covers the following topics:

- About the 865 PTZQ PRO Extended PoE and Ethernet Kit
- Key Benefits
- Summary of Features
- Typical Use Applications

About the 865 PTZQ PRO Extended PoE and Ethernet Kit

The 865 PTZQ PRO Extended PoE and Ethernet Kit provides a complete all in one solution and lower cost alternative for installing a PoE device beyond IEEE Ethernet cabling distance limitations or for installing a remote LAN requiring no power at the remote end. Traditional methods require installation of costly fiber (that can't carry power) or a series of hubs/repeaters and the use of voice and PoE equipment combined.

The preferred network access for these PoE devices is a dedicated Ethernet line, however Ethernet over twisted pair wiring has its distance limitations of just 328 ft. In order to drive Ethernet signal further, one would have to add repeaters to each segment of 328ft twisted pair cabling; this is often insufficient and too costly in multi-story buildings. Fortunately the Enable-IT 865 Series Extended Ethernet extends High Power PoE+ and 100Mbps Ethernet up to 4.5 times beyond the 328ft/100m limit up to 1,500ft/458m distance. If using the PoE to remotely power the 865 CPE (remote device) and using standalone remote self-powered LAN than it will extend Ethernet data up to 3,500ft/1,067m distance using LAN ports 3-4 output.

The 865 PTZQ PRO enables the simple installation of a PTZ PoE+ device up to 1,500ft (458m) from your LAN and Power Source. – This is ideal for installing High Powered PoE+ PTZ Security cameras or for a standalone remote self powered LAN up to 3,500ft (1,067m).

WARNING: Output LAN ports 1 & 2 on the 865 PTZQ PRO CPE are PoE enabled and not for use with non-PoE equipment as it may damage any non-PoE equipment.

The Enable-IT 865 PTZQ PRO Extended Poe and Ethernet kit has been tested to provide full duplex transport up to 100MB/s over 2-pair telephone wiring or better.

Unit Model	Wiring	Min Data Rate	Max. Distance
865PTZQ	CAT3, CAT5e or better	100Mbps FD*	1,500ft / 458m

Key Benefits

The following list identifies the 865 PTZQ PRO Extended PoE and Ethernet Kit key benefits.

- Quad switched PoE+ enabled LAN RJ-45 10/100 Ethernet ports on each end for expansion without adding a hub or switch on each end.
- The Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit requires No Power (CPE remote end), No Firmware, No Maintenance
- Broadband technology that delivers in-building PoE+ and Ethernet access over existing Category 3 , Category 5e wiring or better up to 1,500ft or 458m.
- Provides one scalable infrastructure for Internet access, dual POTS, VoIP, video, Power over Ethernet (PoE) and virtual private networking.
- Low profile box with voice line, Ethernet data and PoE+ all in a single RJ-45 Ethernet jack (Interlink port).

Summary of Features

The Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit has the following hardware features:

- PoE and Extended Ethernet line over existing CAT 3 up to CAT5e / CAT6 wiring
- Uses RJ-45 Interlink port for transport (single voice, PoE and 100Mbps data)
- Rapid Telco style installation – no programming required
- Supports digital VoD channels and Maintains existing telephone (lifeline POTS)
- Drives Ethernet 100 Mbps full-duplex service delivery with PoE up to 3,500ft or 1,067m
- Network Equipment independence – Transparent to protocols/applications/MAC
- Cisco PoE single line injector support built in.
- Transparent to single line 802.3af PoE devices.

Specifications:

Power Indicator
100Mbps Link status/Activity
VDSL2 Link Status/Activity

Dimensions:

Height: 1.5" (38mm)
Depth: 3.75" (95mm)
Width: 5.75" (146mm)

Interfaces

(1) 5v 2A DC Power Adapter 2.1mm
(4) RJ-45 100MB LAN Auto negotiate Port
(1) RJ-45 Interlink Port

LAN 1 port pins:

Pins 1, 2, 3 & 6 – Ethernet Data
Pins 4 & 5 – PoE positive power
Pins 7 & 8 – PoE negative power

Functionality:

Data Rates 100Mbps Full Duplex
Full Duplex/Half Duplex status/Collisions
Protocol independent

865 PTZQ PRO Interlink port pins:

Pins 1 & 2 – Data
Pins 3, 4 & 5 – PoE positive power
Pins 6, 7 & 8 – PoE negative power

Environment

Operating temp: -49°F to 168°F (-45°to 76°C)
Storage temp: -49°F to 168°F (-45°to 76°C)
Humidity 5% to 95%, non-condensing

Multi Use Applications

Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit is a versatile multipurpose solution installed for the use of PoE equipment such as High Powered PoE+ PTZ Cameras. Non-PoE equipment may be damaged if used and the Enable-IT 865 PTZQ PRO kit should be used to bridge non-PoE equipment.

The 865 PTZQ PRO Extended PoE and Ethernet Kit allows a standard Ethernet segment injected with 56v PoE+ to be deployed quickly over existing 2 pair Telco Copper Wiring or CAT5e cabling up to 1,500ft / 458m to a remote unpowered location.

Installers have the convenience of a 100Mbps LAN Ethernet unit for peace of mind connectivity and no device maintenance. Rapid installation allows for minimal interruption and the Broadband technology allows for investment protection up to 10-15 years with no firmware or replacement issues. Bandwidth can be scaled according to the Broadband Access Provider needs. The 865 PTZQ PRO Extended PoE and Ethernet Kit is a passive device so interruption of Internet service does not affect POTS services. Carriers and Access Providers can come and go, but the 865 PTZQ PRO Extended PoE and Ethernet Kit technologies continue to provide lasting value such as the other utilities like water, gas and electricity.

The Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit is suited for the following key environments:

- **Commercial Buildings (Multi-Tenant Units)**
- **Business Parks (Multi-Tenant Units)**
- **Apartments (Multi-Residential Units)**
- **Hotels (Multi-Hospitality Units)**
- **Business Suites (Multi-Hospitality Units)**
- **School Campuses (University, K-12)**
- **College Housing (Multi-Residential Units)**
- **Mining Operations – Quarries, Mine shafts**
- **Nautical Infrastructure – Cruise ships, Marinas, dive operations, subs**
- **Video Surveillance/Security**
- **WiFi Deployment – ISP's, RV Parks, Construction sites**
- **Manufacturing – Foundries, pharmaceutical, aerospace, automotive, petroleum, concrete plants, etc.**
- **Retail POS – Department stores, Bars, restaurants, retail spaces**
- **Government – Naval ships, FEMA, Housing, USGS, National Parks, Forestry, Research stations, NASA, utilities, etc.**
- **Education – outdoor camps, college campuses**
- **Healthcare – Hospitals, elder care, outpatient facilities**
- **Entertainment – Movie theaters, home entertainment, fairs, outdoor venues**

INSTALLING THE 865 PTZQ PRO KIT

The Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit has a distance restriction of 1,500ft or 458m over 2-pair of Category 3 up to 4-pair Category 5e / CAT6 wiring from your LAN and power source to the remote PoE device. Therefore quick, simple site surveys and installation planning are highly recommended – This is ideal for installing PoE IP Security cameras or PoE WiFi Access Points.

This chapter describes the recommended installation process for the Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit. It covers the following topics:

- Site Plan – Installation Design Considerations
- Unpacking the Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit
- Perform an out of the box Test
- Performing the On-Site Installation

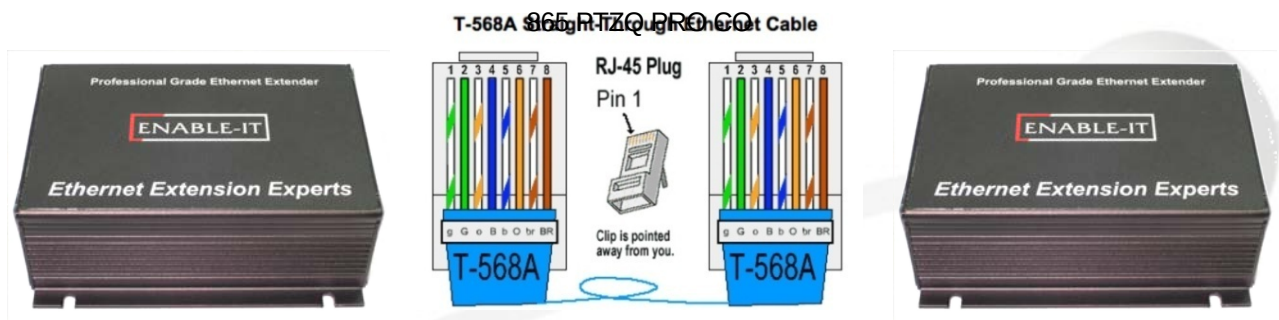
Site Plan - Installation Design Considerations

The planning process should involve a site walkthrough and discovery survey. Electrical Cable measurement tools are the most reliable method to determine the longest run of hidden wiring. Estimate the best locations to position the Broadband Concentrators to adequately reach desired connectivity on each floor. Document your findings to use in designing a network topology to support the Ethernet Switches and backbone connectivity. Key points to remember in the Site Survey.

- Total distance limitation of 1,500ft / 458m from end to end.
- 2 Pair CAT-3 wiring or 4-pair Cat5e .30 Gage or better cabling is required for the 865 PTZQ PRO Interlink transmission.
- Not compatible with any PoE switches as the PoE switches are not smart enough to understand Extender Ethernet timing mechanisms and fail to set correct output voltage and will subsequently disable the PoE switch port.
- Transparent to single line 802.3at PoE injectors and devices.

For CAT3 wiring (2-pair/4 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2,4 or 5, 7 or 8) straight through. This will deliver Ethernet Data and PoE.

For CAT5e or better wiring (4-pair/8 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2,3,4,5,6,7 & 8) straight through. This will deliver Ethernet Data and PoE. This can be either T-568A or T-568B spec.



Unpacking the Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit

Carefully remove the Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit all packing materials from the box. Verify that the items listed below are present. Make sure that the equipment supplied matches what you ordered. If any items are missing or damaged, please contact Enable-IT or your distributor for assistance.

- (2) The Enable-IT 865 PTZQ PRO & Extended Ethernet Units (CO & CPE)
 - o 5v AC/DC Power adapter for 865 PTZQ CO
 - o 10' LAN patch cables
 - o Enable-IT 375 75W - 56v High Power PoE+ Injector
- (1) Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit User Manual

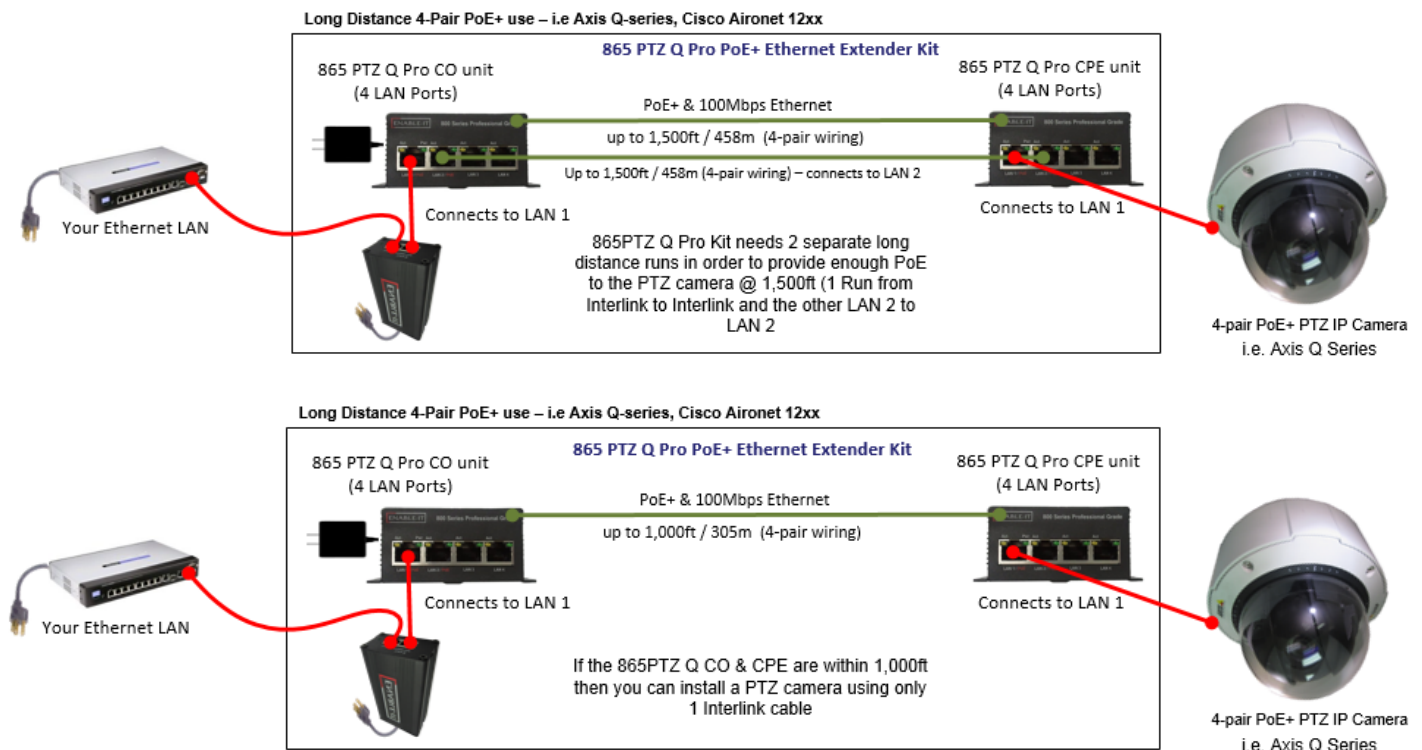
Perform an out of the box Test

We highly recommend a quick test to ensure the working order of your 865 PTZQ PRO units. To do this, please use one of the Ethernet patch cords provided and attach to the 865 PTZQ Interlink port on each 865 PTZQ unit.

Using the 5v power adapter, power up the 865 PTZQ PRO CO Unit and run another Ethernet patch cord from LAN2/PoE on the 865 PTZQ PRO CO to LAN2/PoE on the 865 PTZQ PRO CPE. Next you will need to connect your PTZ camera to the LAN1/PoE port on the 865 PTZQ PRO CPE.

The last step is to then connect the 375 PoE Injector to the LAN1/PoE port on the 865 PTZQ PRO CO. After a few seconds you should see a solid Green Interlink Sync LED on each unit to confirm a link is established. The Green Interlink Sync LED will pulse rapidly as it detects traffic. This confirms basic proper operation of the units.

WARNING: Output LAN ports 1 & 2 on the 865 PTZQ PRO CPE are PoE enabled and not for use with non-PoE equipment as it may damage any non-PoE equipment.



LED indicators will provide visual operational status of the 865 PTZQ PRO units.

- Mode** – Yellow Solid LED
 - Off = CO unit
 - On = CPE unit
- Sync** – Green slow to fast flicker LED on power up – indicates negotiation of a link
 - Green solid LED indicates link established and rapid pulse is traffic
- Act** – Yellow LED
 - Off = No device attached or detected
 - On = Solid, indicates the presence of local LAN
 - On = Blinking, indicates the presence of local LAN traffic
- Pwr** – Green Solid LED indicates the unit is receiving 5v power

Performing the On-Site Installation

After removing the Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit from the box and performing the out of the box testing all that remains to install the unit on-site is to mount the unit, build the interconnect wiring, add voice lines if needed and attach the LAN device cabling with the provided Ethernet Patch cords.

❶ Mounting the Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Units

The Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit is designed for quick wall mounting. Choose a location to mount each of the Enable-IT 865 PTZQ's where the maximum distance does not exceed 1,500ft or 458m total between devices to be connected. When mounting the Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit it is recommended that you use the appropriate anchors for your mounting surface. If mounting on plywood use wood screws; if mounting onto drywall or sheetrock, use plastic drywall anchors or Velcro can also be used as the units are very lightweight.

❷ Building the 865PTZ Q PRO Interlink wiring

The most important aspect of the install is the correct wiring of the Interlink cabling.

For CAT3 wiring (2-pair/4 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2,4 or 5, 7 or 8) straight through. This will deliver Ethernet Data and PoE.

For CAT5e or better wiring (4-pair/8 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2,3,4,5,6,7 & 8) straight through. This will deliver Ethernet Data and PoE. This can be either T-568A or T-568B spec.

❸ Attaching cabling and devices to the Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit.

Attach your remote PoE device to the 865 PTZQ PRO CPE unit LAN/PoE ports with Ethernet patch cord provided. Attach your local LAN to the 375 PoE injector Data IN port. Attach the power adapter to the 865 PTZQ CO unit. Attach the 375 PoE+ injector to the 865 PTZQ PRO CO LAN1/PoE port with Ethernet patch cord provided. Apply power to the 375 PoE injector with the country power cord provided. Your equipment should now be powered up and functioning properly.

The LED indicators will provide visual operational status of the 865 PTZQ PRO units.

Mode – Yellow Solid LED

Off = CO unit

On = CPE unit

Sync – Green slow to fast flicker LED on power up – indicates negotiation of a link
– Green solid LED indicates link established and rapid pulse is traffic

Act – Yellow LED

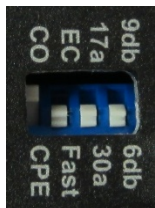
Off = No device attached or detected

On = Solid, indicates the presence of local LAN

On = Blinking, indicates the presence of local LAN traffic

Pwr – Green Solid LED indicates the unit is receiving 5v power

- ④ For troubleshooting, first examine the backbone wiring pair and make sure you have solid connections. The Interlink Sync LED will be lit on each 865 PTZQ PRO unit to show proper connection and pairing. If the Interlink Sync LED Link is flashing – (Not pulsing)
 - 1) Make sure your wiring is straight through and not connected to any Telco punch down blocks or a few as possible – they add interference. If your wiring is spliced, use Telco butt clips or gel filled caps to bridge wire into a solid connection. A flashing Interlink Sync LED indicated the units are trying to connect to each other and are looking to synchronize frequencies.
 - 2) Check for a firm connection of the RJ-45 connections in each 865 PTZQ PRO unit, check any splice points in the Interlink wiring and that the 5v power adapter is applied to the 865 PTZQ PRO CO and the 375 PoE+ injector is powered up.
 - 3) You can always perform another out of the box test to prove out the equipment and then focus on your interlink wiring.



Performance Settings (DIP Switch)

If you are experiencing performance issues with your Ethernet connection you may use the following DIP switch settings to adjust your application. For DIP switch 2-4 you must toggle both symmetrically, in other words the CO and CPE must match. If you turn DIP switch 3 Up (Off) on the CO, then you must do so for the CPE and vice-versa.

- Switch 1: CO / CPE Mode
 - CO Mode – Up / Off Position
 - CPE Mode – Down / On Position

Central Office Equipment (CO) is generally the equipment residing at the Carrier Telephone office or the head end of a circuit. Customer Premise Equipment (CPE) is generally the equipment residing on the customer side of a circuit. Typically you would place the CO at the local end and the CPE at the remote end for reference only. CO's only communicate with CPE's.
- Switch 2: Interleaved / Fast Channel
 - Interleaved Channel – Up / Off Position
 - Fast Channel – Down / On Position (Default)**

Interleaved channel works better for file transfers, where the delivered data must be error free but latency incurred by the retransmission of error packets is acceptable. Fast channel is preferred for streaming multimedia, where an occasional dropped bit is acceptable, but lags are less so.
- Switch 3: Asymmetrical / Symmetrical Mode
 - Asymmetrical Mode – Up / Off Position
 - Symmetrical Mode – Down / On Position (Default)**

Asymmetrical mode weighs in favor of download speed while sacrificing upload speed bandwidth. Symmetrical will balance out the download/upload speed for transmitting data packets. We suggest flipping DIP switch 3 Up (OFF) at a distance of 1,500 feet or less.
- Switch 4: Signal-to-noise Noise Ratio (SNR)
 - 9dB – Up / Off Position
 - 6dB – Down / On Position (Default)**

Signal-to-noise ratio is a measurement that refers to how much noise is in the output of a device, in relation to the signal level. If you experience issues of noise bleeding over the lines, or high interference in your environment, it is suggested that you switch to 6dB SNR and change to Interleaved channel. This may help clean up any noise bleeding over your cabling.

TECHNICAL SUPPORT

Enable-IT, Inc.'s Customer Care Team support is available directly to customers and distributors. All support requests are processed through the online support portal. This allows us to provide assigned support ticket numbers in order to bring closure to any technical issues.

Online Technical Services

The Enable-IT Support Portal is available 24/7 to open a ticket or check the status of one. Please use this support website as your first source for help as it contains an on-line knowledge base of articles, documentation, FAQ's and other problem-solving resources. This web-based support resource provides the quickest solution to the most common technical support issues.

World Wide Web Site

<http://support.enableit.com>

Returning Products for Warranty Repair

Enable-IT, Inc. warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. **Electrical damage is not an item that is covered under this warranty, extended warranties or Advanced Replacement Program (AREP).**

In order to obtain an authorized RMA approval, the End User must complete the required information online located at <http://support.enableit.com>. If you have questions or difficulty completing this information you may contact the Customer Care Team at 888-309-0910 between the hours of 8:00 a.m. and 5:00 p.m. PT.

Please ship Authorized RMAs to:

Enable-IT Processing Facility
16600 Harbor Blvd, Suite I
Fountain Valley, CA 92708-1363

Returning Products for Refund

Enable-IT, Inc. offers a generous 45-Day refund on a single Ethernet Extender Kit only, and is subject to a 15% Restocking Fee. Shipments without a valid or authorized RMA number, or sent to our corporate Las Vegas address, can be refused and / or billed for additional shipping.

ENABLE-IT, INC. LIMITED WARRANTY

Enable-IT, Inc. warrants the Enable-IT 865 PTZQ PRO Extended PoE and Ethernet Kit solely pursuant to the following terms and conditions.

1. PRODUCT WARRANTY.

a. Express Warranty.

Enable-IT warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. This warranty does not apply to Products, which are resold as used, repaired or reconditioned, or consumables (such as batteries) supplied with the Product. **Electrical damage is not an item that is covered under this warranty or extended warranties.** Enable-IT does not make any warranty with respect to any third party product, software or accessory supplied with or used in connection with the Product and such third party products, software and accessories, if any, are provided "AS IS." Warranty claims related to such third party products, software and accessories must be made to the applicable third party manufacturer.

b. Remedies for Breach of Warranty.

In the event of a breach of the foregoing warranty, Enable-IT will, in its sole discretion and at its cost, and subject to the terms of the following paragraph, repair the non-conforming Product, replace the non-conforming Product with a new or reconditioned Product or refund the purchase price for the Product. Any new or reconditioned Product provided pursuant to this paragraph is warranted as provided herein for the remainder of the original Warranty Period. THE REMEDY SET FORTH IN THIS PARAGRAPH SHALL BE THE END USER'S SOLE AND EXCLUSIVE REMEDY FOR BREACH OF THE FOREGOING WARRANTY.

c. Conditions for Warranty Qualification.

If authorized by Enable-IT to return a Product which does not conform to the warranty set forth above, the End User must: (1) obtain a return materials authorization (RMA) number from Enable-IT by contacting the Customer Service Dept. at 888-309-0910 between the hours of 8:00 a.m. and 5:00 p.m. PST and otherwise fully comply with Enable-IT's then-current RMA policy; (2) return the Product to Enable-IT in its original packaging freight pre-paid; and (3) provide to Enable-IT the original receipt or bill of sale establishing the date on which the Product was purchased. Products returned to Enable-IT without an RMA number will be returned to the End User. Enable-IT shall not be responsible for damage or loss during shipment of the returned Product to Enable-IT.

d. Voiding of Warranty.

The express warranty set forth above shall not apply to failure of the Product if the Product has been subjected to: (i) physical abuse, misuse, improper installation, abnormal use, power failure or surge, or use not consistent with the operating instructions provided by Enable-IT; (ii) modification (including but not limited to opening the Product housing) or repair by any party in any manner other than as approved by Enable-IT in writing; (iii) fraud, tampering, unusual physical or electrical stress, unsuitable operating or physical conditions, negligence or accidents; (iv) removal or alteration of the Product serial number tag; (v) improper packaging of Product returns; or (vi) damage during shipment (other than during the original shipment of the Product to the End User from Enable-IT, if applicable).

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